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APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/761,842		01/21/2004	Wang Yueh	ITL.1058US (P17800)	3057	
21906	7590	02/18/2005		EXAM	EXAMINER	
TROP PRI	JNER &	HU, PC	LEE,	LEE, SIN J		
8554 KATY		AY			D. 1000 1 100 100 100 100 100 100 100 100	
SUITE 100				ART UNIT	PAPER NUMBER	
HOUSTON	HOUSTON, TX 77024					
				DATE MAILED: 02/18/2009	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/761,842	YUEH ET AL.	
Office Action Summary	Examiner	Art Unit	
	Sin J. Lee	1752	
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet wit	h the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPITHE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a re  - If NO period for reply is specified above, the maximum statutory perior  - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	I.  1.136(a). In no event, however, may a re  2. In the statutory minimum of thirty  3. In the statutory minimum of thirty  4. In the statutory minimum of thirty  5. In the statutory minimum of thirty  6. In the statutory minimum of the statutory  6. In the statutory minimum of the statutory  7. In the statutory minimum of the statutory  8. In the statutory minimum of the statutory  8. In the statutory minimum of the statutory  8. In the statutory minimum of the statutory  9. I	ply be timely filed  (30) days will be considered timely.  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on <u>06</u>	December 2004.		
2a) This action is <b>FINAL</b> . 2b) ⊠ Th	nis action is non-final.		
3) Since this application is in condition for allow	•	•	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-5 and 11-16</u> is/are pending in the	application.		
4a) Of the above claim(s) is/are withdra	awn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-5 and 11-16</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/	or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examir	ner.		
10)⊠ The drawing(s) filed on <u>21 January 2004</u> is/ar	e: a)⊠ accepted or b)⊡ ob	jected to by the Examiner.	
Applicant may not request that any objection to the	e drawing(s) be held in abeyand	be. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corre			
11) The oath or declaration is objected to by the E	Examiner. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents	nts have been received. nts have been received in Ap	oplication No	
3. Copies of the certified copies of the pri	· ·	received in this National Stage	
application from the International Bure  * See the attached detailed Office action for a lis		toppiusd	
See the attached detailed Office action for a lis	st of the certified copies flot i	eceivea.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview S	ummary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s	)/Mail Date	
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date</li> </ol>	6) Other:	formal Patent Application (PTO-152)	

Application/Control Number: 10/761,842 Page 2

Art Unit: 1752

## **DETAILED ACTION**

1. Applicants canceled claims 6-10 and 17.

2. In view of the amendment of December 6, 2004, previous 102(b) rejection on claims 1-3, 6-9, and 11-16 over Aoai et al'098 is hereby withdrawn since Aoai does not teach present anions of claims 1 and 11.

3. In view of the newly cited prior arts, the following rejections are made *non-final*.

## Claim Rejections - 35 USC § 112

4. Claim 15 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 15 depends from claim 6, which is a canceled claim.

## Claim Rejections - 35 USC § 102

- 5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 6. Claims 1-5, 11-14, and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Roger et al (JP 10-39500, its JPO English abstract, and its full English translation).

In claim 12 (see the English translation), Roger teaches a photoresist composition containing photoactive components of the following formula:

Application/Control Number: 10/761,842 Page 3

Art Unit: 1752

wherein each  $R^2$  and  $R^2$  are members of a first fused *aryl ring*; each  $R^3$  and  $R^3$  are members of a second fused *aryl ring*; each X is a heteroatom, a  $C_{1-3}$  alkylene, or a hetero-substituted  $C_{1-3}$  alkylene, and M is a counter anion. As one of the specific example for the compound of the general formula (IV), Roger teaches (see pg.12, last paragraph – pg.13, first paragraph of English translation) the following compound:

(in this compound, each R<sup>2</sup> and R<sup>2</sup> of the general formula (IV) shown above would be members of a first fused *phenyl ring*, and each R<sup>3</sup> and R<sup>3</sup> would be members of a second fused *phenyl ring*). Therefore, Roger teaches present inventions of claims 1-3 and 11-14 (the compound shown above contains present perfluoroalkyl sulfonate as the anion).

With respect to present claims 4 and 5, Roger teaches the equivalence of the phenyl group and napthyl group as aryl groups (see pg.10, third paragraph of English translation). Therefore, one of ordinary skill in the art would immediately envisage each R<sup>2</sup> and R<sup>2'</sup> of the general formula (IV) to be members of a first fused *napthyl ring* 

Application/Control Number: 10/761,842

Art Unit: 1752

(instead of phenyl ring) and each R<sup>3</sup> and R<sup>3</sup> to be members of a second fused *napthyl* ring (instead of phenyl ring). Therefore, the prior art teaches present inventions of claims 4 and 5.

With respect to present claim 16, Roger teaches (see pg.12, second paragraph of the English translation) that the R<sup>2</sup>, R<sup>2</sup>, R<sup>3</sup>, and R<sup>3</sup> of the general formula (IV) can be substituted with halogen, alkyl, alkoxy, alkenyl, aryl, or substituted aryl. Therefore, it is the Examiner's position that one of ordinary skill in the art would immediately envisage Roger's compound (D) shown above, in which the fused phenyl groups are substituted with alkyl groups. Therefore, the prior art teaches present invention of claim 16.

7. Claims 1, 2, 4, and 5 are rejected under 35 U.S.C. 102(e) as being anticipated by Cameron et al (US 2003/0134227 A1).

Cameron teaches (see [0003] and [0009]) cyclic sulfonium and sulfoxonium photoacid generator compounds and photoresist composition that comprises such compounds. As one of the examples for the photoacid generator compound, Cameron discloses the following compound (see pq.8, structure 35):

wherein X<sup>-</sup> represents R'SO<sub>3</sub> where R' is *perfluoroalkyl* having 1- 12 carbon atoms such as triflate (see [0040], [0041]). Therefore, Cameron's photoacid generator shown above contains *present perfluoroalkyl sulfonate as its anion*.

Therefore, Cameron teaches present inventions of claims 1, 2, 4, and 5.

Application/Control Number: 10/761,842 Page 5

Art Unit: 1752

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sin J. Lee whose telephone number is 571-272-1333. The examiner can normally be reached on Monday-Friday from 9:00 am EST to 5:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly, can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

S.J.L.

S. Lee

February 17, 2005

Sin J. Lee

Sin A. Lee

Patent Exammer

Technology Center 1700